

United States Patent [19]

Carlson et al.

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[54] DEPOSITION OF TRANSPARENT
AMORPHOUS CARBON FILMS[75] Inventors: David Emil Carlson, Yardley, Pa.;
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427/39; 427/122; 428/426[58] Field of Search 427/39, 101, 122;
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[56]

References Cited

U.S. PATENT DOCUMENTS

3,167,449 1/1965 Spacil 204/173
3,854,979 12/1974 Rossi 428/408

FOREIGN PATENT DOCUMENTS

1,582,045 8/1969 France 427/39

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[57]

ABSTRACT

Applying a D. C. glow discharge to a heated glassy substrate in an evacuated chamber to which a volatile hydrocarbon has been added, produces a glassy substrate coated with a hard, transparent, resistive, amorphous carbon coating.

8 Claims, 1 Drawing Figure

